

FIG. 1

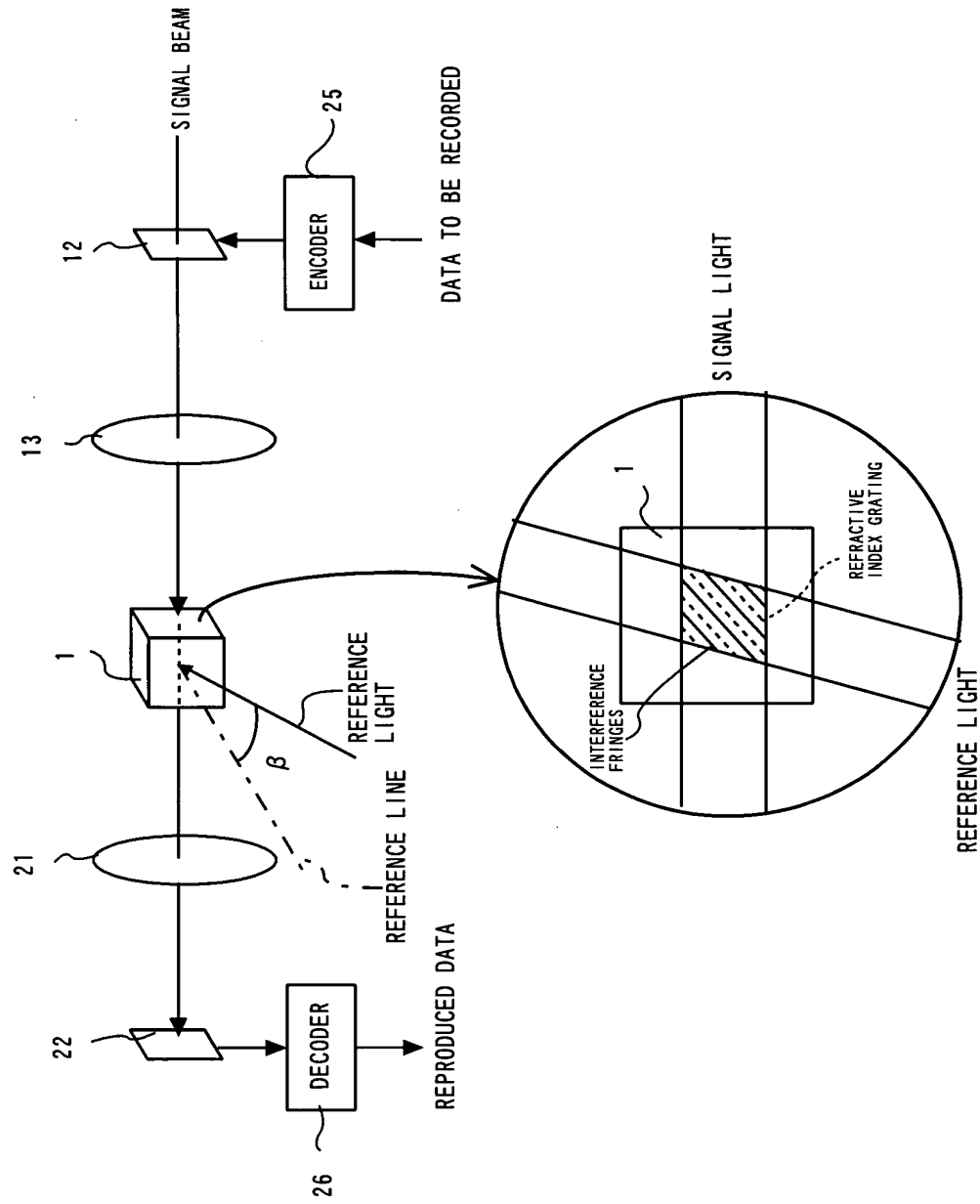


FIG. 2

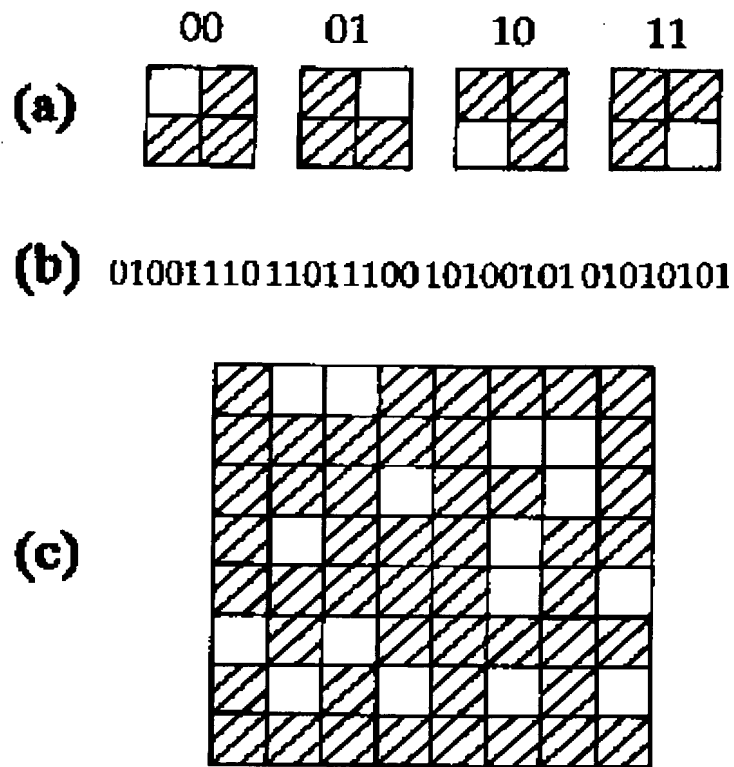


FIG. 4

TWO-DIMENSIONAL MODULATION (6:9 MODULATION)			
INFORMATION DATA 6 BITS			MODULATED DATA OF 9 BITS (9 PIXELS)
000000	→	110001000	
000001	→	110000100	
000010	→	110000010	
000011	→	110000001	
100100	→	010001010	
100101	→	010001001	
100110	→	010000110	
100111	→	010000101	
⋮			

FIG. 5

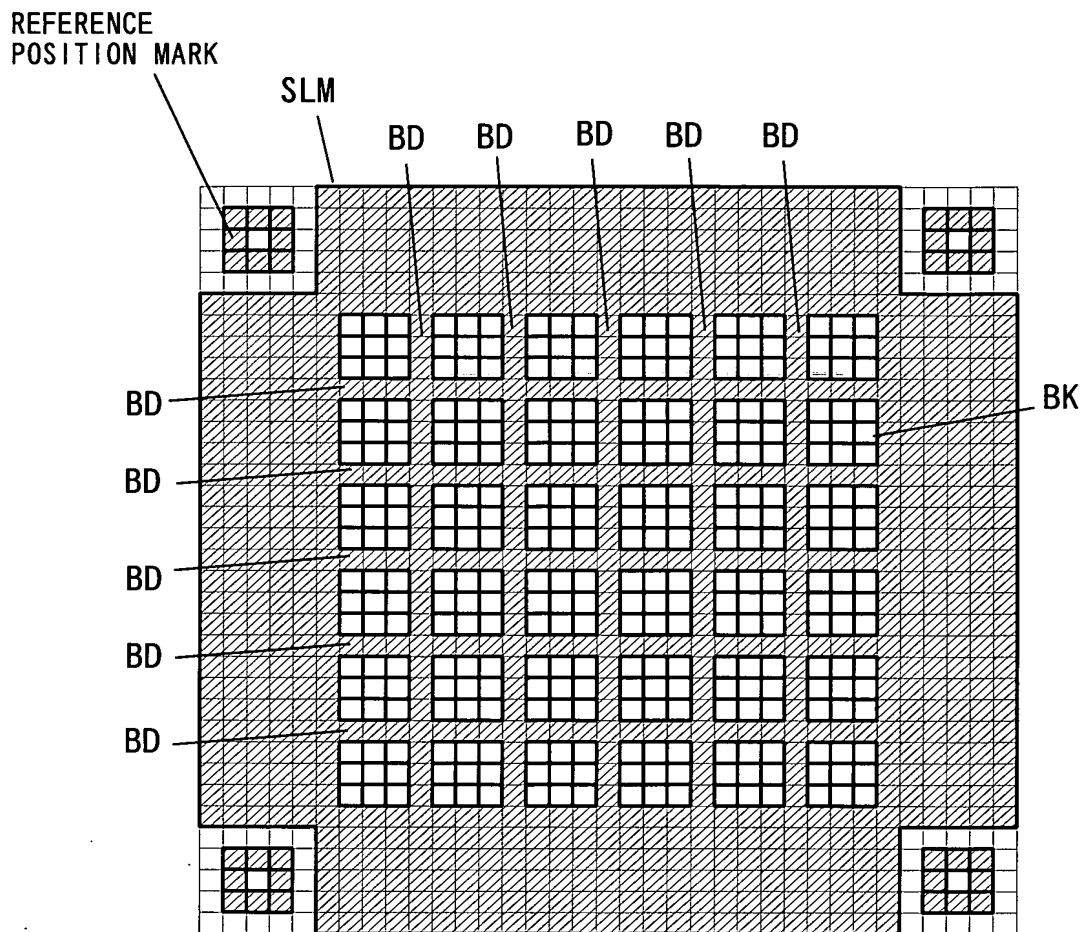


FIG. 6

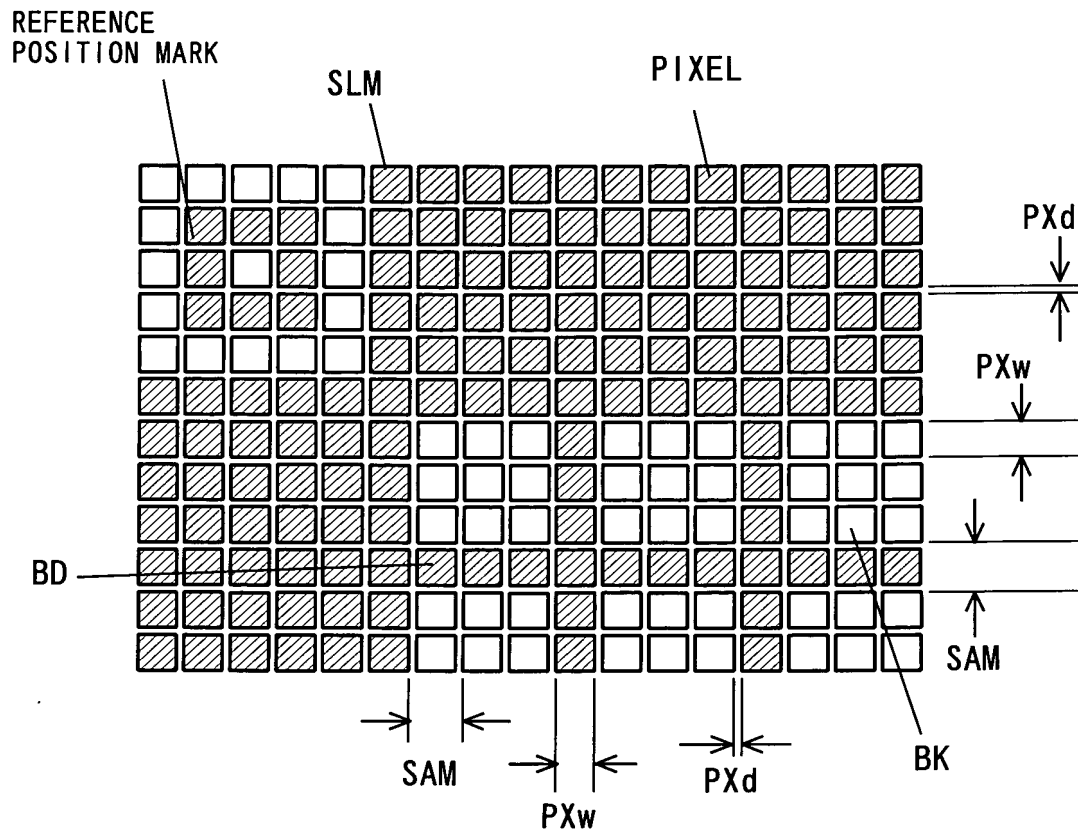


FIG. 7

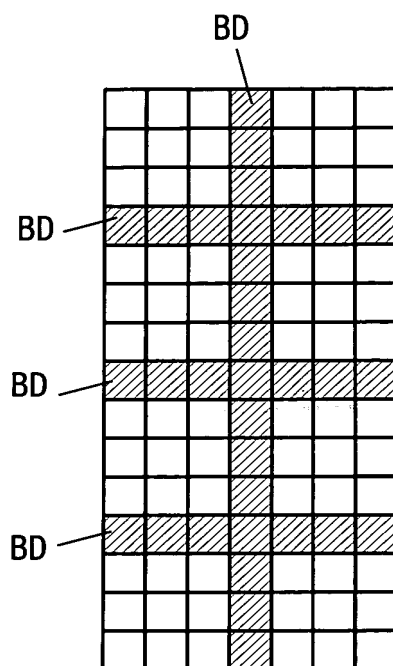


FIG. 8

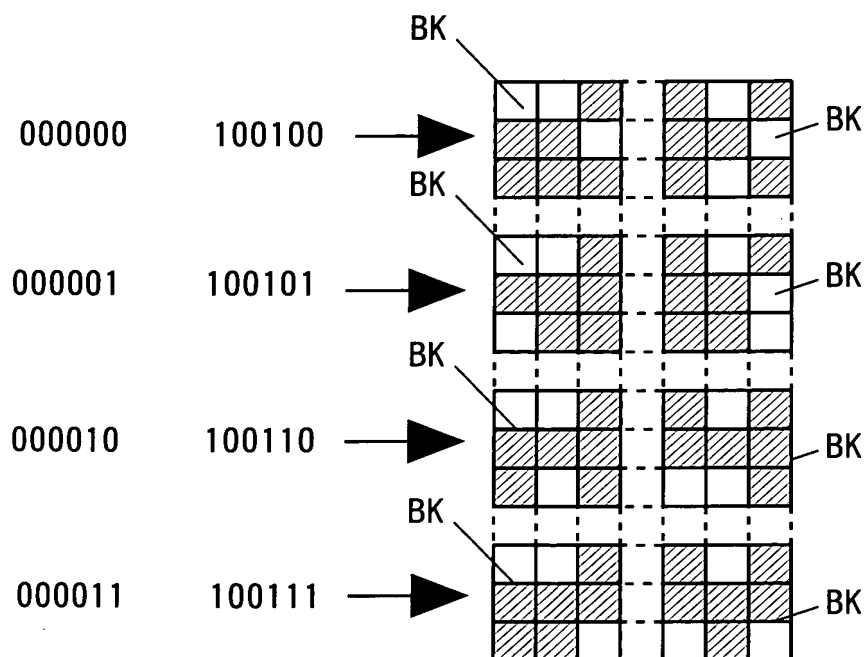


FIG. 9

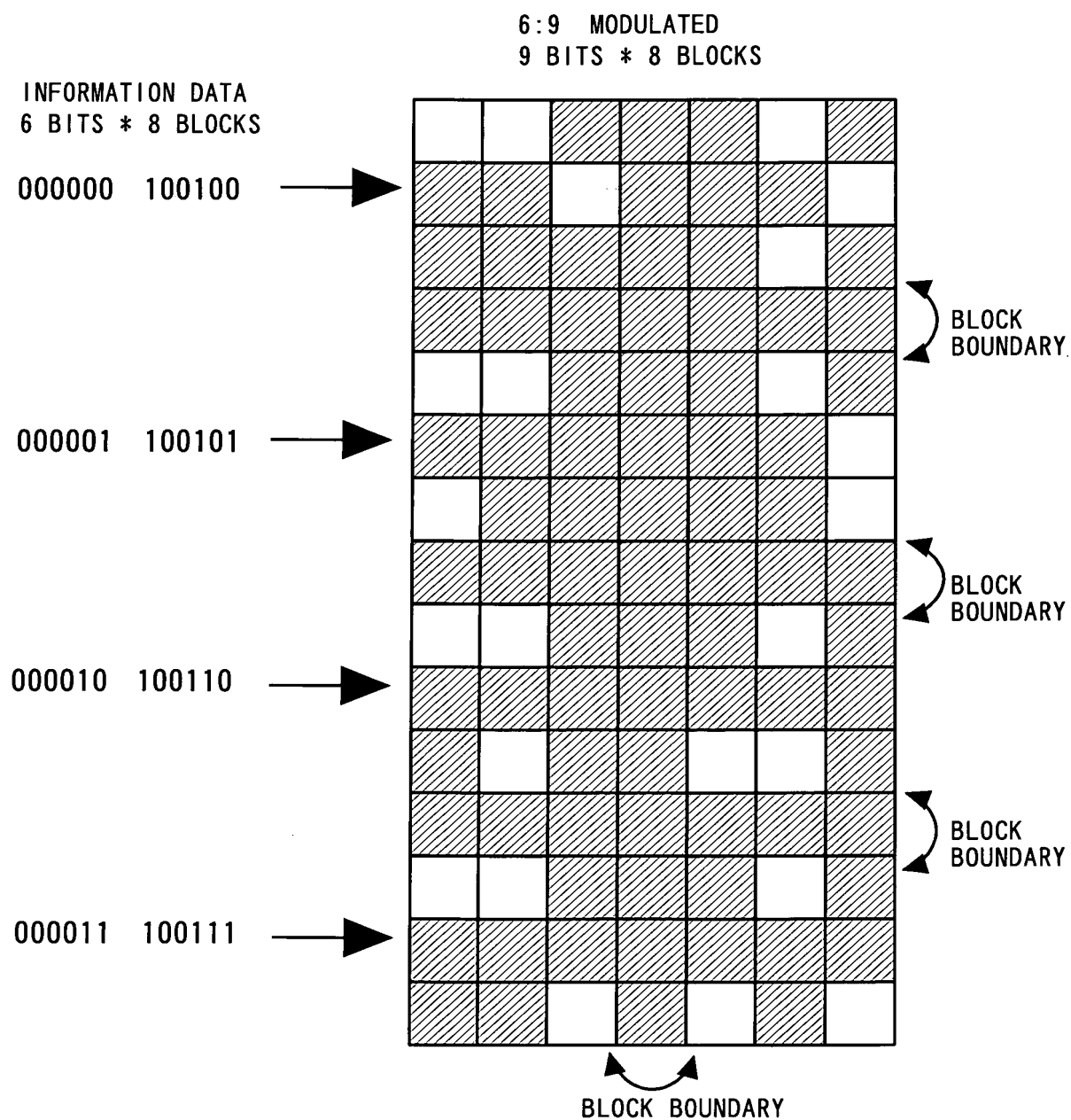
TWO-DIMENSIONAL
MODULATION
(6:9 MODULATION)

FIG. 10

TWO-DIMENSIONAL
MODULATION
(6:9MODULATION)INFORMATION DATA
6 BITS * 8 BLOCKS6:9 MODULATED
9 BITS * 8 BLOCKS

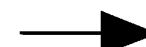
000000 100100



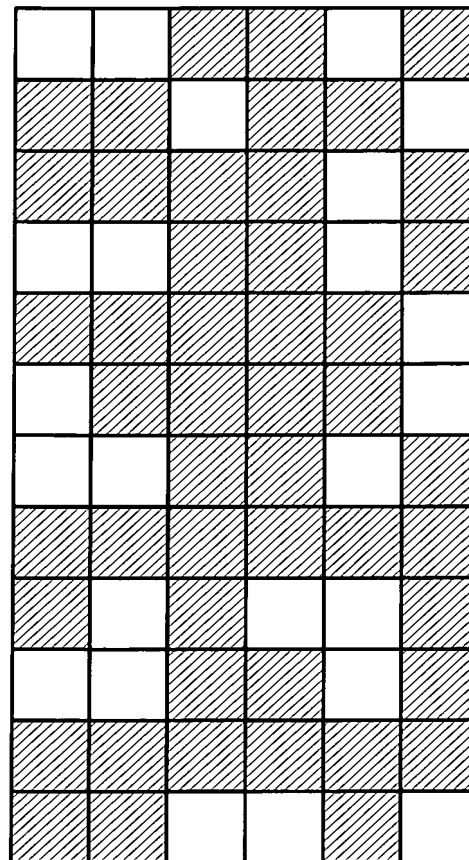
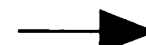
000001 100101



000010 100110



000011 100111



BLOCK BOUNDARY

BLOCK BOUNDARY

BLOCK BOUNDARY

BLOCK BOUNDARY

FIG. 1 1

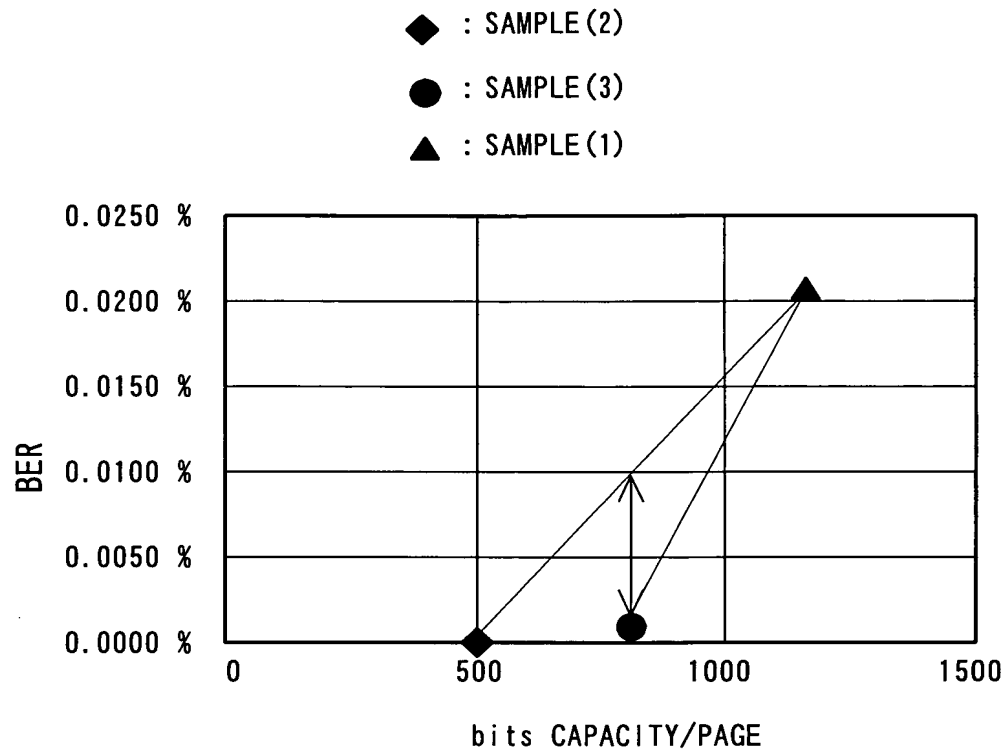
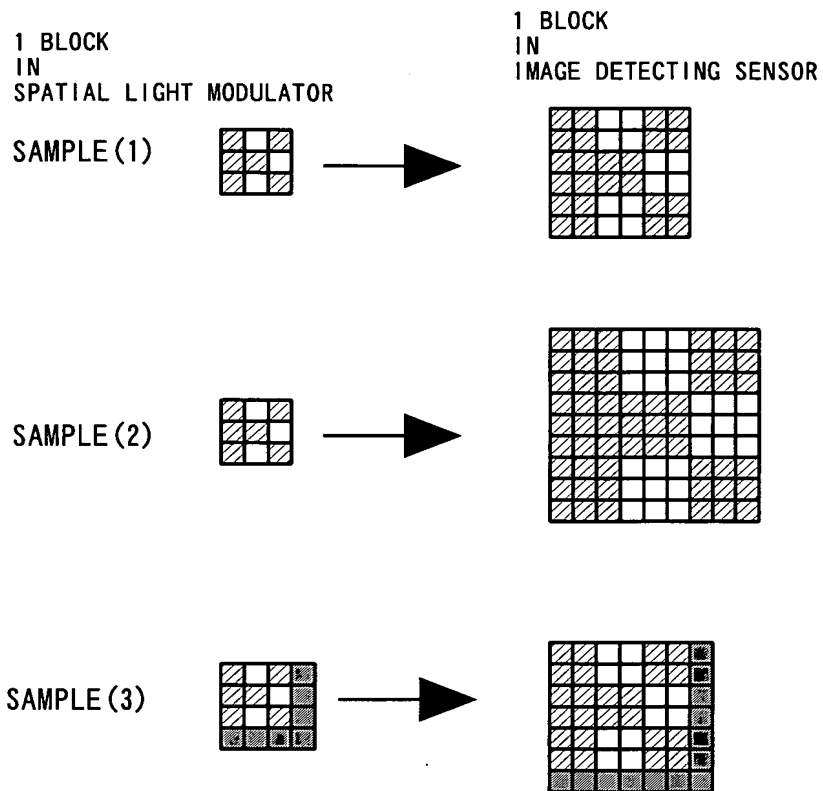


FIG. 1 2

OVERSAMPLING



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FIG. 13

LATTICE CONNECTION BASED ON ADDITION OF
DARK PIXELS ARRANGED IN J-SHAPE

TWO-DIMENSIONAL MODULATION (6:9 MODULATION)	
INFORMATION DATA OF 6 BITS	MODULATED DATA OF 9 BITS (16 PIXELS)
000000 →	
000001 →	
000010 →	
000011 →	
100100 →	
100101 →	
100110 →	
100111 →	
⋮	

FIG. 1 4

LATTICE CONNECTION BASED ON ADDITION OF
DARK PIXELS ARRANGED IN 『-SHAPE

TWO-DIMENSIONAL MODULATION (6:9 MODULATION)	
INFORMATION DATA OF 6 BITS	MODULATED DATA OF 9 BITS (16 PIXELS)
000000 →	
000001 →	
000010 →	
000011 →	
100100 →	
100101 →	
100110 →	
100111 →	
⋮	

FIG. 1 5

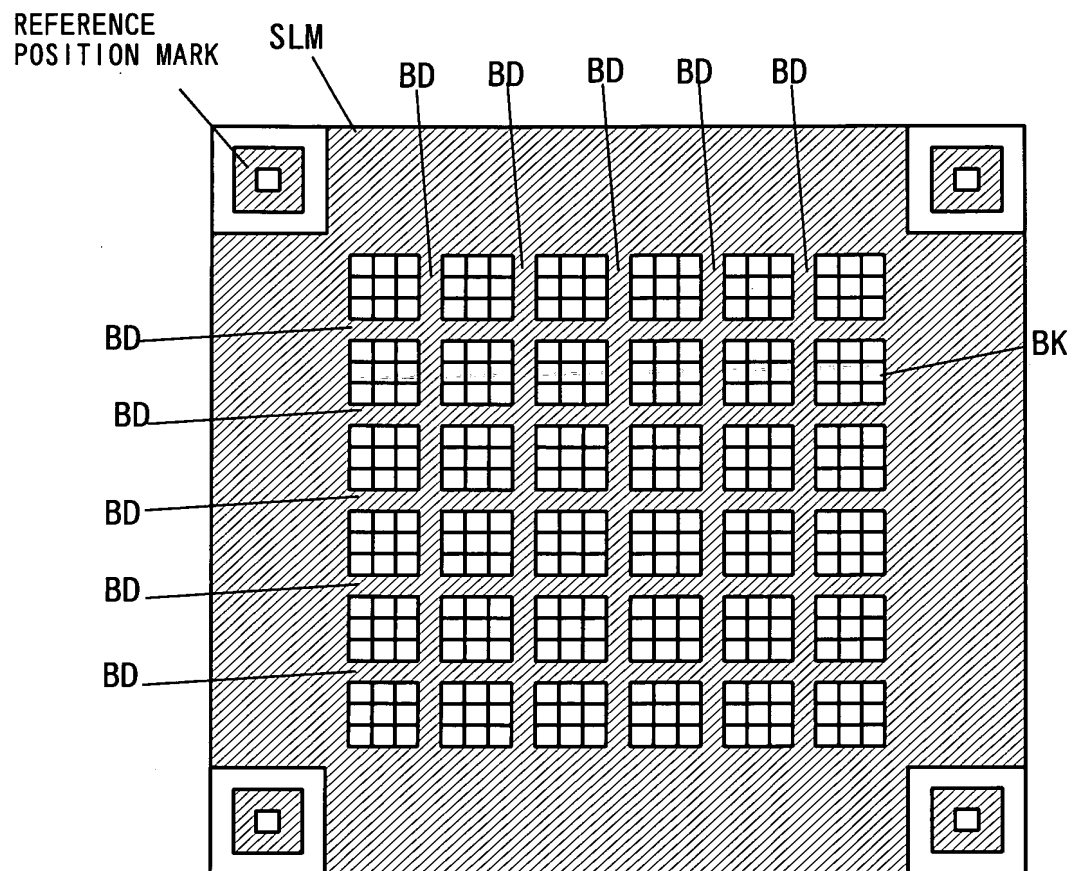


FIG. 1 6

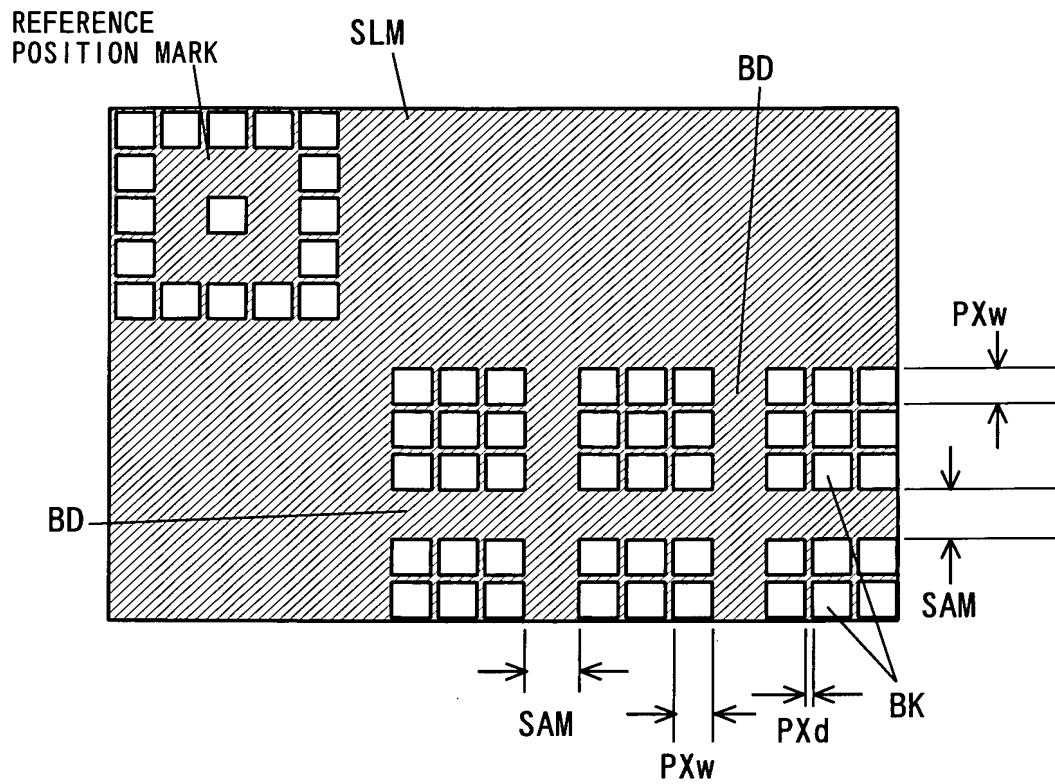


FIG. 1 7

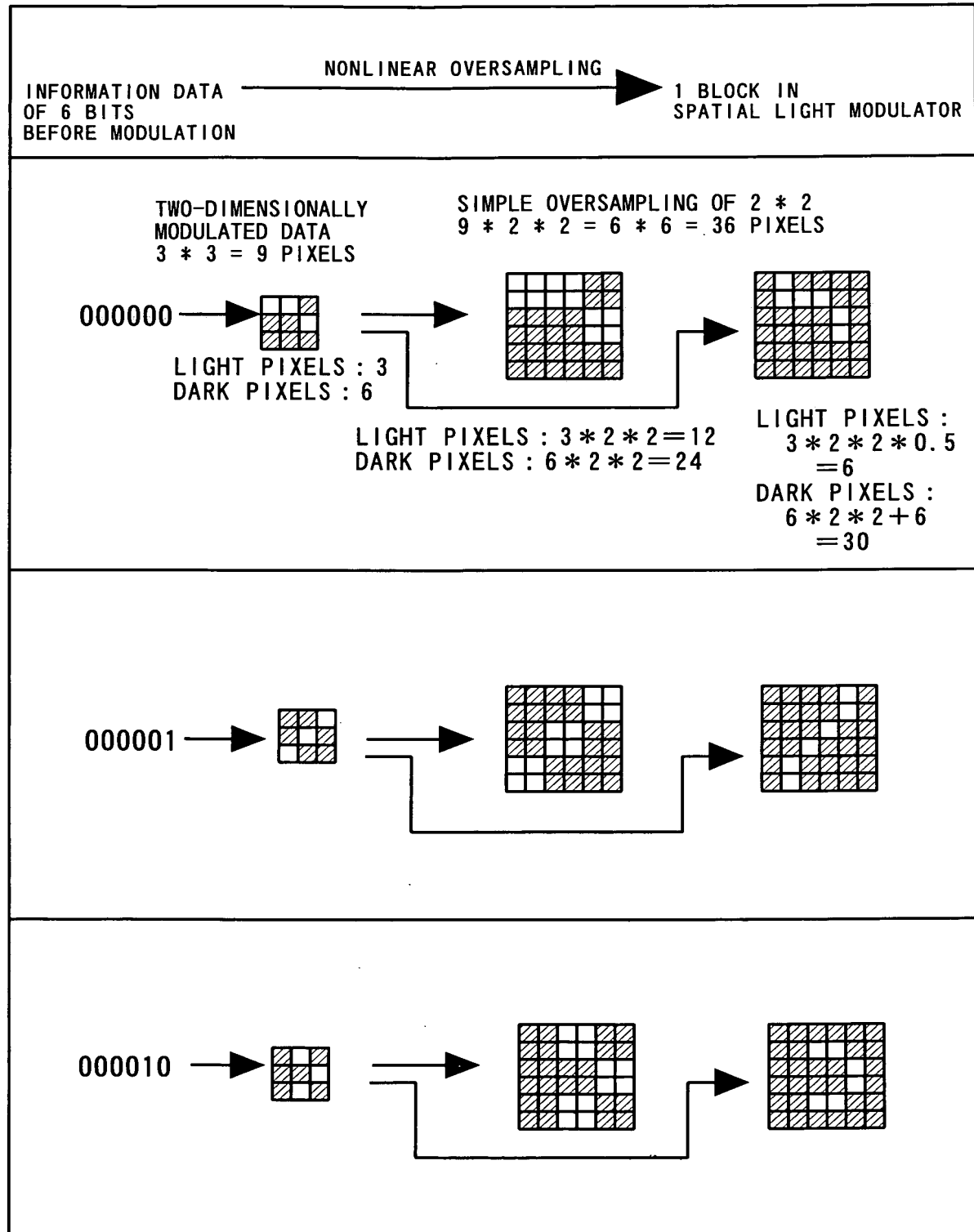


FIG. 1 8

NONLINEAR OVERSAMPLING

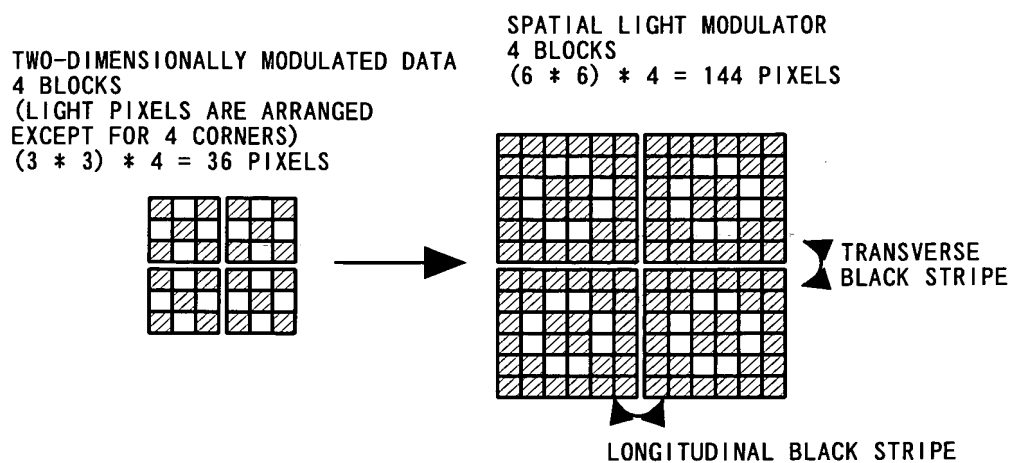


FIG. 1 9

NONLINEAR OVERSAMPLING

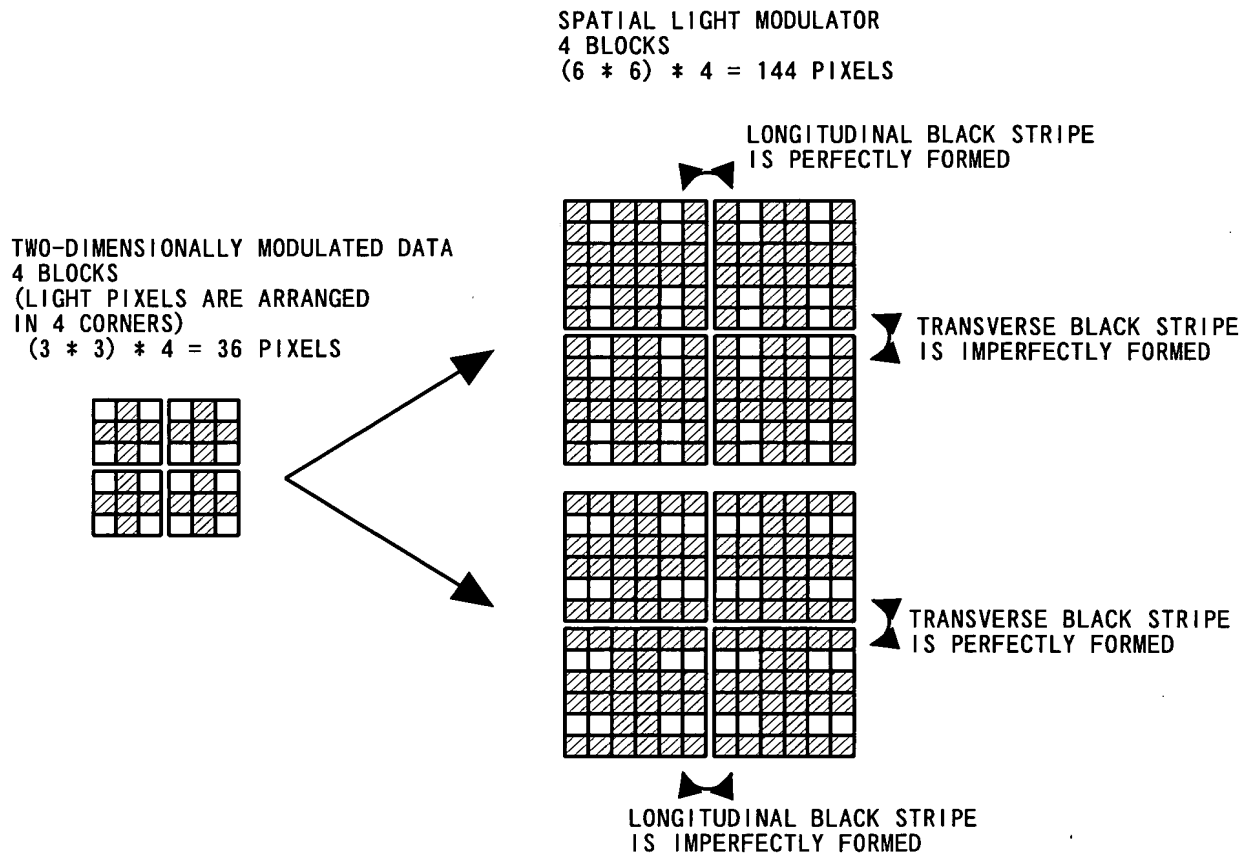


FIG. 2 0

NONLINEAR OVERSAMPLING

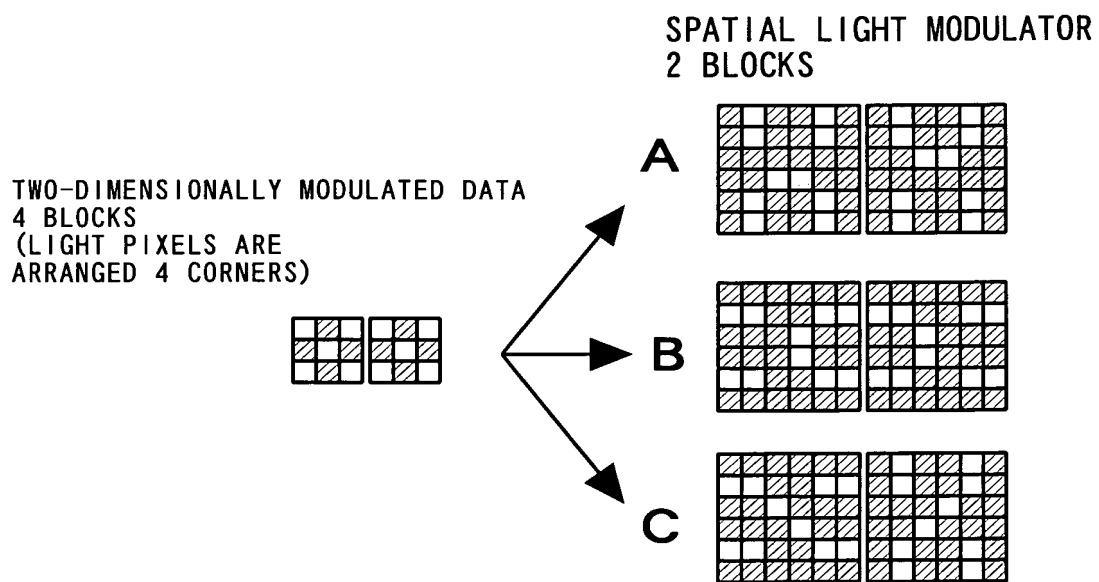


FIG. 2 1

